



OREGON

TUALATIN



MARCH 1986

VALLEY

AMATEUR RADIO CLUB

Po Box 5132 Beaverton, Oregon 97006

EDITOR: AL BERG WB7SIC

Membership: 182

CIRCULATION: 210

President: Greg Milnes
Vice-Pres: Willis Ranes
Secretary: Jeff Freedman
Treasurer: Randy Stimson

W7AGQ
N7DZR
K7JF
KZ7T

Trustee: Linda Cereghino N7CZY
Trustee: Randy Cobb KA7HJT
Trustee: Al Berg WB7SIC
Trustee: Warren Knight N7BIJ
Trustee: Dee Lynch KA7NPN

MEETING: 2nd WEDNESDAY BEAVERTON ELKS AT 7:00 p.m. (Dinner at 6:30 p.m.)

MEETING PROGRAM: COMPLETE PROGRAM DETAILS CAN BE FOUND ON THE BACK PAGE.



Convention activities and plans are coming along right on schedule and it is looking goooood. We have, right now, as many exhibitors confirmed as we had last year during the show!! Of them are KENWOOD, ICOM and YAESU..... The ladies are going to be especially pleased as we have, at last, a committee for same and the gals have put together a GREAT schedule. (TBA) The seminar schedule is near to completion, a record for early response, and if that isn't enough we have finally gotten confirmation as to our banquet program. Primary speaker will be Colonel Gordon Fullerton of NASA. Secondary speaker will be Mr. Leland Smith, W5KL, National QCWA President and just to

make sure everyone is alert, we will have Chapter II of the ongoing saga of Stanley in the "Story of a Ham". That alone should be worth the price even if your prime rib is not done to your liking. Which is a rarity....

COSTS: We are spending a lot more this year on advertising. Primarily in the area of registration form mailings. We are up from our normal mailing of 6000 copies to 19,300!! Very expensive. Why? We either had to draw back and hope or go full bore due to the opposing Mary's Convention, which now, of course, we know has been cancelled. We committed and now hope it will pay for itself. One of the ways everyone can help is by REGISTERING EARLY. This will be of interest, maybe! Last year, with a membership of 270, guess how many of OUR OWN members registered. Seventy! That is abt how many worked on committees. WE NEED YOUR REGISTRATIONS NOW. We are going to have to make temporary borrowing attempts to pay the bills until registrations start coming in. Which they will! How come we are short? Mostly because of the reason stated above and partly because yours truly has not, in the past, found it necessary to save aside a great deal of seed monies. That situation will not occur again! In summation, it is going to be a real blowout this year. I believe we can look for an increase in attendance of well over 25%. Sure hope YOU are a part of that new crowd. More great information next month. Al WB7SIC

CAMPAIGN ANNOUNCEMENT



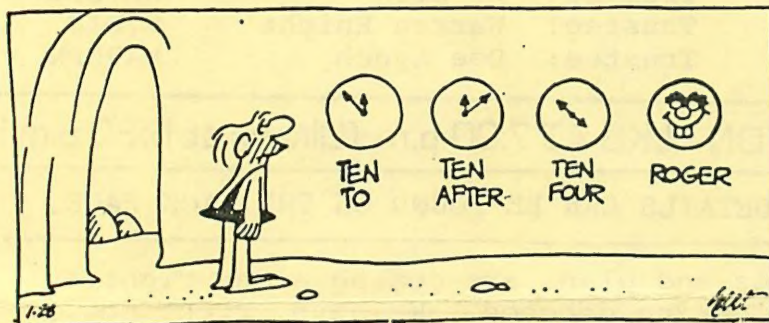
This will be the first public report telling of the fact that Rush Drake, W7RM, our ARRL Seventh Division Vice-Director, has decided to oppose Mary Lewis in the upcoming election for Director of the Northwest Division. Rush, who has been a visitor to our club meetings, as well as a past MC at the Seaside Convention, is well suited for such duty. He is well known and respected among many groups throughout the Division

and is a person who puts Joe Ham's needs ahead of his own personal goals. Another news first is a campaign committee has been set up to solicite funds for Mr. Drake's campaign and rest assured it will cost quite a bit. Mailings and travel costs will mount up and if you wish to contribute, a means will be made available at the meeting. If you wish to contribute to the 'other party', be generous. It will take a miracle.....

VOTE WISELY-VOTE SMART

Tandy (they are playing down the Radio Shack name) is taking dead aim on Big Blue. In a complete about face, Tandy now plans to market IBM clones almost exclusively! The Model 4 is the last remnant of the old thinking and its days are numbered. Tandy's new Model 3000 is basically an IBM-AT at \$1,000 less. Look for Tandy to spend millions to revamp its store fronts to a more professional, businesslike appearance.

B.C. By Johnny Hart



from "SCOPE" VISTA, CA.

NORTHWEST AMATEUR RADIO COUNCIL

Volunteer Examiners Committee

Portland, Oregon

is sponsoring Amateur Radio License Exams for Technician, General, Advanced and Extra at Portland Community College (Sylvania Campus) in the Science Technology (Bldg ST), at 12000 SW 49th, Portland, Oregon. Exams will be held the FIRST SATURDAY OF EVERY MONTH!

TO REGISTER:

1. Complete FCC Form 610 (be sure to indicate the highest Class of License you will be attempting!)
2. Attach a copy of your Amateur Radio License (if applicable).
3. Make a check or Money Order for \$4.25 payable to ARRL/VEC. to ARRL/VEC.
4. Mail all three of these to:

Randy Cobb/VE Exams

P.O. Box 5097

Aloha, Oregon 97006

5. DEADLINE - Registrations must be received 30 days prior to taking the Exam.

FOR ADDITIONAL INFORMATION:

VE Committee Members:

Armand, WA7IIM 760-2140

Ralph, WB7VGS 649-5845

Dea, KX7T 632-4734

Lea, AL7W 777-1032

Joan, KD7YB 638-5159

Tom, KV7Y 254-8006

Rozy, KA7CED FCC Contact Liaison 255-0739

New Callbook concept

Announcing the biggest change in its 65-year history, Radio Amateur Callbook proudly presents three new publications for 1986. The North American Callbook, the International Callbook and the Callbook Supplement will provide current QSL information for over 880,000 radio amateurs throughout the world.

To be published on 01 December 1985, the new 1986 North American Callbook lists the licensed amateurs in all countries in North America plus those in Hawaii and U.S. possessions. Not just a reprint of government licensing records, this listing information is carefully screened and corrected by its editorial staff to ensure the utmost accuracy. Also featured are the Callbook "extras": international postal information, worldwide QSL bureaus, census of radio amateurs around the world, and much more.

Also published on 01 December, the International Callbook lists the calls, names and address information for licensed amateurs in all countries outside North America. Fully updated by the Callbook's editorial staff using information from official sources throughout the world, the International Callbook's coverage includes Europe, Asia, Africa, South America and the Pacific area (exclusive of Hawaii and U.S. possessions).

The 1986 Callbook Supplement is a whole new concept in Callbook updates. To be published 01 June, the new Supplement will list the combined activity in both the North American Callbook and the International Callbook for the preceding six months. One Supplement, available from your local dealer of the publisher, will bring thousands of new licenses, address changes and "Then and Now" call changes from countries around the world.

For additional information or literature, contact the publisher, Radio Amateur Callbook, Inc., 925 Sherwood Drive, Box 247, Lake Bluff, IL 60044. Worldradio

Input/Output

29.52/29.62

Newbury Park, CA....WB6WGE
 Atlanta, GA.....KE4IO
 Evansville, IN.....WA9QDZ
 Newton, KS.....WD0ALH
 New Orleans, LA.....KB5VC
 Freeland, MD.....K3SP
 Malden, MA.....W1BHD
 Hillsboro, MO.....W0JZY
 Toms River, NJ.....WA2TMZ
 Fairfield, OH.....WD8PRH
 Chester, PA.....WB3JVX
 Memphis, TN.....W4ZJM
 Brady, TX.....KC5OQ
 Brady, TX.....WD8CIY
 Milwaukee, WI.....WB9ZRB
 Ontario, Canada....VE3TFM
 Uxbridge, Canada....VE3TFM
 Ponca City, OK.....W5HZZ

29.53/29.63

Monterey, CA.....N6AHW

29.55/29.65

Columbia, CT.....WA1CBY
 Buffalo, NY.....KB2OQ
 Pine Grove, PA.....K3SLG

29.57/29.67

Woodstock, IL.....N9DBX

29.58/29.68

Palos Verdes, CA....WB6IGH
 Albany, GA.....W4MM
 Bridgewater, NJ.....WA2WJY
 Buffalo, NY.....W2SEX
 Setauket, NY.....K2YBW
 Sterling, VA.....KD4DN

29.54/29.64

Birmingham, AL.....WB4QVT
 Mobile, AL.....KE4QC
 Monrovia, CA.....W6QFK
 St. Petersburg, FL....W04B
 Boone, IA.....K0LKH
 Quinter, KS.....W0GBZ
 New Orleans, LA.....N5ARU
 Baltimore, MD.....W3DID
 Ann Arbor, MI.....WD8DPA
 Bridgeton, MO.....WA0YUA
 Manhattan, NY.....K2KLN
 Westmoreland, NY.....K2GVI
 Akron, OH.....K8LK
 Athens, OH.....N8EEG
 Wilkes-Barre, PA.....WB3FKQ
 Sioux Falls, SD.....WB7DRU
 Port Nechez, TX.....WB5ITT
 San Antonio, TX.....K5TYU
 Sedro Wooley, WA.....W7ZFX

29.56/29.66

Hollywood Hills, CA...W6ORD
 Palomar, CA.....N9PL
 Boulder, CO.....W0IA
 Claymont, DE.....KC3AM
 Park Ridge, IL.....W9LM
 Concordia, KS.....W0TQ
 Silver Spring, MD.....N3AUY
 Bloomington, MN.....AE0N
 Oyster Bay, NY.....K2MZ
 Roseburg, OR.....WA6GBC
 El Paso, TX.....KC5EJ
 Houston, TX.....WR5ARS
 Sturtevant, WI.....WA9ZY0
 St. Thomas (Virgin Is)W2IBJ

29.51/29.69 (Unusal Split)

York, PA.....W3EDU

This Ten Meter FM Repeater Listing is the most up-to-date we have at the present time. However, we cannot guarantee that everything listed here is true and correct. New repeaters are cropping up on a monthly basis, while older ones appear to become inactive for some reason or another. Occasionally, location and/or call sign ID may change.

---SUGGESTIONS WANTED---

Don't forget to use the SUGGESTION BOX for any worthwhile contributions to making the club a better place to be for one night a month! It has been paid attention to and several changes have resulted in response to ideas submitted. It saves meeting time and gives the Board some good reasons for meeting. Hi! Do your thing and drop us a line.....

ORRC

Oregon Region Relay Council, Inc.

P.O. Box 29101

Portland, OR 97229-9101

PUBLIC NOTICE

January 31, 1986

This letter outlines the existence and history of that organization known as the Oregon Region Relay Council, Inc.

When it was recognized that splinter groups could not satisfy the coordination requirements of the State of Oregon, the system owners and operators met in Salem in February 1978 and formed the Oregon Region Relay Council.

On March 31, 1978, the ORRC was incorporated under Oregon law as a non-profit corporation.

ORRC works closely with the Northern Amateur Relay Council of Calif. and the Western Washington Amateur Relay Association on coordinations that overlap council boundaries.

ORRC coordinates all repeaters, remote bases, packet repeaters and ATV repeaters in the amateur bands.

The ORRC coordination area covers the following boundaries.

North: The Washington-Oregon border East of the Columbia River; the Columbia River Westerly to the US 97/I-84 junction; a line from there to the summit of Mt. Adams; the N. Fork of the Lewis River westerly to the Columbia River and then to the Pacific Ocean.

East: Idaho border.

South: California border.

West: Pacific Ocean.

Current officers, area representatives and coordinators are:

Chairman: Skip Hamilton, KH6DUT

Vice-Chairman: Joel Determan, WB7TGZ

Secretary/Treasurer: Warren Winner, W7JDT

West Central Area Rep: Phil Smith, W7BFX

Southern Area Rep: John Newman, KA7QFY

Eastern Area Rep: Jack Collins, N7DNV

Portland Area Rep: Dale Justice, K7WWR

SW Washington Area Rep: Mark Richardson, WA7NTU

FCC Liaison: Mark Walker, W7CLU

6 and 10m Coordinator: Joel Determan, WB7TGZ

2 and 220mhz Coordinator: Dale Justice, K7WWR

440mhz and up Coordinator: ORRC officers and area reps

Requests for further information and coordination applications should be addressed to the post office box above.

Recorded, January 31, 1986 at:

Multnomah County Records Office

Multnomah County/State of Oregon

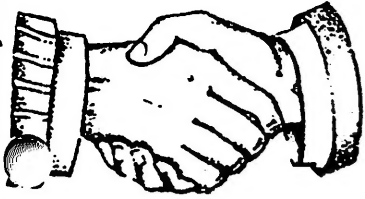
610 SW Alder, Room 300

Portland, OR 97205

For the Oregon Region Relay Council, Inc.



Warren Winner, W7JDT
Secretary/Treasurer



NEW MEMBERS

We welcome two new members this month. Hello to Barbara Bailey, KA7WTF, who hails from Newberg. She is an ARRL member and lists other hobbies as camping, fishing and motorcycling. Club interests are in the area of Field Day, picnics, and contesting. We hope hubby, Tom, shares these aims because if he does, we shall see some new faces at our outside functions. Also a HI to Chuck Northcutt, KA7WUV, who resides in Aloha with wife Robin. Chuck is with TRW and his outside hobbies are sailing, scuba, karate and he serves as a reserve sheriffs deputy. Very busy guy! Hope you both enjoy the club and its people.

LIFE MEMBERS

The club has been around long enough now to list some of the new and almost new LIFE MEMBERS. Prerequisite for life membership is that you be 62 years of age and have been a paid-up member (uninterrupted) for five years. The following callsign list shows who have made it.

WB7VGS KQ7L K6RH KA7GUP KA7BSD KB7CC N7GCL WA7FNO WB7VZO and Eldon May, WB7BCW, who recently became a 'Silent Key'. Congratulations to you all and hope to list you as Life Members for many years to come..

NEW CALL: Eunice Noyes, a recent new member in the club, is sporting a brand new and first ever callsign of KA7WTC. If she gets her act in gear and actually operates the novice bands, give her a call.

EUGENE HAMFAIR NEWS

It is with great pleasure that we announce the fact the EUGENE HAMFAIR will be a GO this July 26 and 27. The location will be vastly upgraded as they are giving up on the National Guard Armory and moving it to the very plush RED LION. Their costs will go up but it should make for a much improved show and the end result should, hopefully, prove it. We wish the folks down south all the best in their endeavors. (details later)

CLUB QSL CARDS-YEA OR NAY??

Club QSL cards have been a subject for quite some time. As many of you know, we had access to them a couple of years ago but the response was rather on the weak side. We now have another attempt at what some of you have requested and that is 'trying again'. Keep in mind that an order for 5, 6, or even 10,000 cards is small spuds to a commercial printer. If we want cards we will have to pay a few bucks more than what is available on an individualized basis. The ONLY way we can make a club QSL card program possible is to come up with at least 30 members who are willing to order. With 30 orders the cost of 1000 cards will be \$38.00 per. If we could get 60 members to order 500 cards the cost would be \$30.00. I don't think we are going to get 60 members interest but 30 is possible. The point here is YOU have to make your wishes and orders known or we WILL NOT HAVE club cards. Any salesmen around??

1986 MEMBERSHIP LOSS

We make another plea to try and get some of the rather heavy membership losses regained. We, at this point, have lost 80 people for the new year. This is much larger than our normal year end figure. Hard to figure why! Anyway, we have an annual budget based on a larger membership number and if we don't make some quick gains, we might find some programs either cut back or cancelled. Please do what you can.....

A SPECIAL PAGE FOR PACKET RADIO AFFICIONADOS

(normal people too)

LOW ORBIT COMPUTER "FLYING MAILBOX"

The FCC's January 13th ruling makes the concept of "flying mailboxes" a legal reality. PACSAT, an acronym for packet satellite, is a joint venture between AMSAT - the Radio Amateur Satellite Corporation and VITA - Volunteers in Technical Assistance. VITA has helped emerging and under-developed nations for more than two decades. Up until this point, their assistance has mostly been through the mail. With assistance from the amateur community, they are about to go "high tech."

The mission of PACSAT is to demonstrate to Third World countries the feasibility of inexpensive satellite delivered information. Linked by satellite, amateur volunteers in developing countries will be able to send and receive emergency, welfare, and certain other amateur-type messages. Travellers in dangerous, rugged areas will easily be able to stay in touch with the outside world with small portable earth stations that can be carried about! Messages facilitating business are, of course, prohibited.

One of the officials at VITA is Gary Garriott, WA9FMQ, a cousin of astronaut Owen Garriott, W5LFL. As VITA control operator, Garriott must insure that all messages are of legal amateur radio content. Hopefully the amateur demonstration would show to other financiers of commercial satellites what can be done in the field.

Harold Price, NK6K, a Los Angeles communications consultant with a degree in computer science is the project manager for PACSAT. We talked to him this past weekend. While much of what he said was highly technical and theoretical, we were able to learn much about PACSAT.

Sometime next year, a spring-top cylinder will be loaded onto a NASA space shuttle. The garbage can sized container is actually what NASA calls a "get-away special" - a cheap (\$20,000) ride into space. Hal was not sure just when it will be launched, since "get away specials" ride on a space available basis.

Inside the canister will be a very sophisticated amateur satellite that will use packet radio as its primary access mode. Its \$1 million dollar price tag must be paid for by donations which are still being solicited. Pac-

ket radio is an error free system of computer-to-computer communications travelling nearly simultaneously in both directions on the same frequency.

PACSAT will circle the globe in a low polar orbit every 90 minutes at a 500 mile altitude. Since the earth is rotating beneath, PACSAT passes over every point on the earth four times a day and will be in sight of any amateur station for a ten minute period. PACSAT will be covered with solar cells, contain its own propulsion system, transmitters, receivers, and microprocessors (holding 4 megabytes of memory) to run its mailbox.

Using automatic store and forward technology, messages will be uplinked (at 480 characters a second) to PACSAT for subsequent automatic retrieval any place in the world. The international information exchange potential is mind boggling!

The PACSAT system is unbelievably simple and low cost compared to existing commercial systems! Instead of three multi-million dollar geostationary satellites and large expensive antennas, PACSAT simply systematically moves around the earth inhaling, storing and exhaling traffic much like your mailman.

Very inexpensive ground equipment will fit in a briefcase! Even an ordinary coat hanger makes an exceptable receiving antenna! An amateur packet station (small portable computer, a terminal node controller and a radio) is all that is needed. The packet station will simply query PACSAT to see if any messages are waiting for it to download. Packet stations can even turn themselves on and off to coincide with known PACSAT orbits!

The disadvantage of PACSAT is "time" - it isn't instantaneous like those of expensive global systems. It can take up to 10 hours to deliver a message depending on the location of the addressee and sender.

PACSAT is not an untried system. The Amateur UoSAT OSCAR 11 presently carries a working PACSAT prototype system. Japanese amateurs hope to orbit a similar store and forward system this fall! Low orbit amateur messaging will soon be with us!

THANKS TO W5YI



1986 otvarc member survey



At long last, we have finally put together a brief survey to help the club's officers better serve you, our valued members. Among the items we are striving for, are better committee structure, improved roster information and a general solicitation of your thoughts regarding club meetings and the like (whew!). A rather ambitious undertaking, but something we have wanted to do for years.

We would really appreciate your completing the attached post card in its entirety and returning to us at your earliest convenience. Postage is already affixed. The more information you can provide us with, the better we can plan upcoming programs and events.

A rather sensitive issue covered in this survey is your occupation and employer. Your help with this aspect of the questionnaire will allow us to promote your business and tap certain resources not previously made available to us. A lot of members would probably call on your company or your own personal talents before seeking assistance (goods or services) from others; I know I sure would rather call on Randy's heating/air conditioning company, or Jim's cabinet shop before going somewhere else.

Please spend a few minutes to fill out the survey and return to us promptly. The Club really needs your help! Thank you. K7JF



WE NEED YOUR HELP - PLEASE !

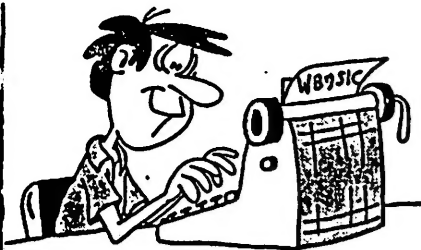


At a recent meeting of your Board of Directors, it was decided the Club should be represented with a booth at the Sea-Pac Convention in June, to promote its activities and encourage new membership.

The time is FAST approaching, and we MUST get organized if we are going to put on a quality show. We need suggestions for a format (if any) for our booth. Do we want to use photos from Field Day, public service events and other club activities? Do we want to work with the staff (Al, Dale and Company) to provide an information booth for the whole convention? As convention co-sponsor do we need to "show our stuff" to other clubs, hams around the state as well as prospective members?

We need your suggestions NOW. Please call me any evening between 6-9 P.M. at 297-7965 to discuss your ideas, volunteer your help or just voice your opinion. Regardless of anything fancy, we're going to have some kind of booth. It would sure be nice to have something other than our usual raffle drawing, photo placards and mother hens tending the roost and their knitting.

Please call soon. Thanks. Jeff, K7JF.



A CONTINUING SOAP OPERA

(courtesy SPARC GAP)

The continuing soap opera of ARRL politics has claimed yet another victim. Chances are that by the time you read this the local efforts to host the 1988 National Convention will be history. Given the resignations under fire of most of the convention committees' officers and given the voluntary departure of the delegations of several of the involved clubs (including ours), I for one see a very slim chance of that conventions ever happening here. There was enough of a cloud cast on the 1988 convention at the recent ARRL Board meeting that it may be yanked, even if we do nothing further. About the only things left for us to do in order to save our tails is to formally abandon the convention application, pay off whatever outstanding obligations there may be, re-form NWARC and make it viable, and reapply in a year or two for a later date. The success of such an endeavor will be at best, contingent on several factors.

First and foremost is the formation of a convention committee, half of whose members are not continually at loggerheads with the Division Director. The second consideration is to reassure the Red Lion people that we're not going to flake out on them yet a THIRD time. Third, we are going to have to rebuild the council to the point that the League Board will take such an application seriously. Fourth, the convention dates for which we reapply must not coincide with another major ham gathering within the Division (we were up against the Radio Club of Tacoma's annual hamfair, which is their principal source of funding). Finally, the council is going to probably have to prove itself first by putting on a viable Division Convention, before a National will be feasible. Lea Ball AL7W

GOODBYE TYPEWRITER--HELLO RADIO (or bowling or skiing or?)

As a continuation to editorializing, I have a few words to say. This is the beginning of my sixth year as editor and it has been a real gas. A bit of time spent to be sure but a very interesting and rewarding chore. Being editor also means folding, stapling and mutilating every month as well but even with that it has still been an 'event' in my life. I have been going over old issues from several years back and in comparison to the results of more recent efforts, it is apparent that the club could use some new blood behind the typewriter and rolls of scotch tape. So what I am suggesting is that everyone start now and attempt to find a replacement and I would also suggest that it be soon. It would be very crass to just up and drop the ball and I have no intention of doing so but if no results are evident in a short while, I will have to drop it, replacement or not. I make no apology as five years should be long enough but I do express regrets to our new president as he has had more than his share of grief and the year has just begun! Hopefully, someone will step forward and help make the transition as painless as possible for all. While this will most likely not be my last, I would still like to thank the members for their patience, at times, in putting up with typos, misinformation and an all too often outburst of personal thoughts. As editor, I have been able to learn a lot about the people in the club and I have learned some things about myself, some of which I am not very proud of. Anyway, thanks for being there and I think all of you are one very fine bunch of people. Honest!!

Al WB7SIC

al

GOT SOMETHING To Sell?



CLASSIFIED ADS

FREE!

FOR SALE: Mobile ham radio cabinet: 1979 Chev ElCamino with Kenwood TM 201 2M and Larson 5/8 wave antenna mounted in hole-in-the-roof. Radio powered by alternator driven by a 305 V8 which also drives a 4 sp manual transmission. Complete package, except for K7NWM license plates which I will keep. \$3745. Call Chuck 639-9163, 639-8844

FOR SALE: 40 ft. HD crank up tower \$90.
ATB 34 Cushcraft tribander \$125.
Call Al WB7SIC at 640-5456



GO FOR IT!

VISIT YOUR LOCAL RADIO STORE

Canyon Printing Inc.

KA7JLD Brad and Jane Beach

10950 S.W. Fifth St. #245, Beaverton, Oregon 97005

- BUSINESS CARDS
- LETTERHEADS
- ENVELOPES
- NEWSLETTERS
- PRICE LISTS
- LABELS
- QUICK COPIES
- POST CARDS
- BUSINESS FORMS
- BOOKLETS
- STATEMENTS
- COUPONS
- FLYERS
- POSTERS
- MANUALS
- MENUS
- BROCHURES
- CARBONLESS FORMS



ART AND CAMERA

- TYPESETTING
- PASTE-UP
- P.M.T.'s
- NEGATIVES
- REDUCTIONS
- ENLARGEMENTS
- VELOXES
- REVERSALS

FINISHING

- FOLDING
- CUTTING
- PERFORATING
- SCORING
- NUMBERING
- PADDING
- STAPLING
- BINDING
- COLLATING
- DRILLING

626-6497



Heath/Zenith Computers and Electronics

516 SE Chaklov Drive #1
Vancouver, WA 98664
206-254-4441
Steve Starr
Manager

4 Accurate Pink/White Noise Generator

The AD-1309 supplies audio energy with the precise frequency characteristics to properly make measurements with real-time or swept-filter spectrum analyzers — at a fraction of the cost of comparable generators. Front panel phono plug outputs and rotary power level control. Operates on one 9 VDC battery.

Kit AD-1309, Shpg. wt. 2 lbs. 49.95

AD-1309 SPECIFICATIONS: PINK NOISE: Frequency Response: ± 1 dB from 20 Hz to 20 kHz. Output Level: RMS average is > 350 mV; peak is 1.5 V. WHITE NOISE: Frequency Response: ± 3 dB from 20 Hz to 20 kHz. Output Level: RMS average is > 350 mV; peak is > 1.5 V. Dimensions: $2\frac{1}{2}$ " H \times $4\frac{1}{4}$ " W \times 4" D.

WHOLESALE

NORTHWEST SPECIALTY MOTOR CO. BEAVERTON, OREGON

MARTIN SCHMID
N7CYG

Office
(503) 626-8732

Res: 642-5857

TELEPHONE (503) 223-2228

KX7Y

STAN WEINSTEIN ATTORNEY AT LAW

SUITE 522 BOARD OF TRADE BUILDING
310 S. W. FOURTH AVENUE
PORTLAND, OREGON 97204

MODULAR DATA SYSTEMS COMPUTER CONSULTANTS

KIRKE E. JOHNSON

WB7PXZ

9030 N.W. Lovejoy
Portland, OR 97229

(503) 297-6173



FRINGING AND BINDING IS OUR SPECIALTY

DAN'S CUSTOM
CARPET SERVICE
PHONE: 775-5513

DAN DOBSON

KR7Z

7715 S. E. 92ND AVE.
PORTLAND, OREGON 97266

IN LOVING MEMORY OF ELDON MORRIS MAY

Eldon was born February 4, 1913 at Forest Grove, Oregon, the son of the late J. Elmer May and Leanna D. Good May. As a young child he moved with his family to Palmer, Oregon, where his father engineered a logging railroad. The May family lived in Palmer for four years, later moving to Pasco, Washington, where Eldon received his grade school education. At age thirteen, he moved back to the Forest Grove community, where he completed his schooling, having graduated from the Forest Grove High School.

Upon completing high school he attended one year of college at Pacific University before attending Oregon State University for four years where he earned a degree in mechanical engineering.

Eldon was united in marriage to Marion E. Beckendorf on February 22, 1937 at Portland, Oregon. They would have celebrated their 49th Year Wedding Anniversary this week. Following their marriage Eldon worked for the Bonneville Power Administration as an engineer in the construction of the power lines throughout the northwest. During the war they resided in Bremerton, Washington where Eldon worked as a testing engineer at the Bremerton shipyards for the United States Navy. In 1945 they returned to Portland and Eldon went to work for the Portland Gas and Coke Company, until 1953 when they moved to the Forest Grove community.

He owned and operated the Eldon May Hardware Store in Forest Grove for twenty-two years. He was involved in scouting for forty-eight years and on May 21, 1975, he received the "Silver Beaver" award for distinguished services to youth. He was nominated for the honor by the Columbia Pacific Council.

Eldon was also active in the Izaak Walton League for twenty years and was a member of the Forest Grove Rotary Club for thirty-three years. He was a recipient of the Paul Harris Fellowship Award and a board member of the Forest Grove Senior Center.

In addition, he was an active member of the United Methodist Church in Forest Grove and the Washington County Ham Association. Eldon served on the Forest Grove City Council from 1962 to 1970.

The family suggests that remembrances may be contributions to the ELDON MAY MEMORIAL FUND, in care of the United Methodist Church, 2230 - 18th Avenue, Forest Grove, Oregon 97116, in his memory.

STOLEN RADIO REPORT

Warren Winner, W7JDT, was a recent victim of a break-in at his home and lost, among other things, his IC 2AT, serial number 09774. Keep you peepers open and, as usual, an ear as well.

If anyone hears of a loss victim, please report it so it can be put in print. A recovery could be possible with some advertising. By the way, don't forget the excellent ARRL insurance program. It is tops and the lowest cost you can find... Need info? Check with our secretary.

It is interesting to compare the 'Minutes' shown below with the recent Division Directors newsletter! Also interesting that they called a special evening meeting to handle the problem. Read on.....

Minutes of Executive Committee
No. 421
Hartford, Connecticut
January 23, 1986

Agenda

1. Determination of date and place of next meeting
2. Consideration of correspondence concerning 1986 Northwestern Division Convention

The Executive Committee of the American Radio Relay League, Inc., met at 9:00 P.M. Eastern Standard Time, Thursday, January 23, 1986, at the Parkview Hilton Hotel, Hartford, Connecticut. Present were President Larry E. Price, W4RA, in the Chair; First Vice President Jay A. Holladay, W6EJJ; Directors Frank M. Butler, Jr., W4RH; Paul Grauer, W0FIR; Hugh A. Turnbull, W3ABC; George S. Wilson, III, W4OYL; and Executive Vice President David Sumner, K1ZZ. Also present were Vice President William J. Stevens, W6ZM; International Affairs Vice President Tod Olson, K0TO; Directors Lys J. Carey, K0PGM, Linda S. Ferdinand, N2YL, Mary E. Lewis, W7QGP, and Rodney J. Stafford, KB6ZV; and Counsel Christopher D. Imlay, N3AKD.

1) It was agreed to reschedule the next regular meeting of the Executive Committee to Saturday, March 22, 1986, in Charlotte, North Carolina.

2) Recent correspondence concerning the approval of a Northwestern Division Convention to be held May 30-31 and June 1, 1986, was reviewed. On motion of Mr. Wilson, the President unanimously was instructed to write the sponsors of a proposed event in Seaside, Oregon advising them that the Committee had discussed their concerns with the Division Director and that she had indicated she would consider favorably an application for state convention sanction for their events; and further, that in view of the incorrect dates for the Northwestern Division Convention that appeared in January QST, the sponsors are to be advised that if they apply for state convention sanction, a 1/4-page advertisement in one issue of QST will be provided to them at no charge.

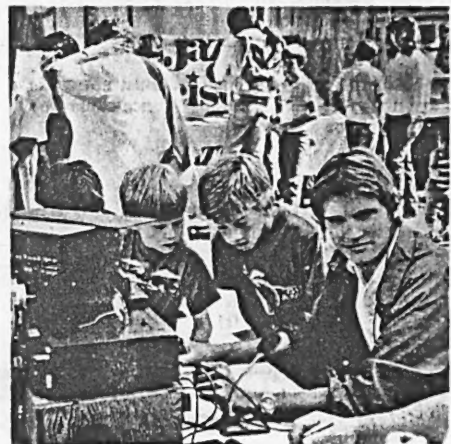
There being no further business, the meeting was adjourned at 10:00 P.M.

Respectfully submitted,
David Sumner, K1ZZ
Recording Secretary

QST-

March 1986

65



Last fall the Oregon Tualatin Valley ARC participated in Beaverton, Oregon's "Beaverton Good Neighbor Days," an outdoor fair with vendor and general-interest booths. The weekend event drew nearly 30,000 people. Occurring just a few days after the Mexico City earthquake, the club's booth drew large numbers of people interested in hearing firsthand how the rescue efforts were going. (KZ7T photo)

90

QST-

Smile Mark! (N7CRQ)



ACTIVITIES

FIELD DAY--CHRISTMAS PARTY--CLUB CAMPOUT--RUSTY KEY--DINE-OUT
HAPPY HOUR CONTEST--OTVARC BREAKFAST--10m CONTEST--CLASSES--
CONVENTION--PROJECT NITE--PUBLIC SERVICE EVENTS--PROGRAMS & MORE

LOCAL NETS OF INTEREST

| Local | MHz | |
|-----------|--------|----------------------------------|
| Sa 0900 P | 146.96 | Swap Shop |
| D 0945 P | 7.238 | Daytime Region 7 - alt 3.895 |
| Su 1030 P | 3.930 | Swap & Shop |
| D 1145 P | 3.896 | High Noon Net |
| D 1515 P | 7.238 | Daytime Region 7 - 2nd |
| D 1715 P | 3.993 | Oregon ARES |
| D 1745 P | 3.908 | Beaver State Net |
| D 1800 P | 3.980 | Oregon Emergency Net - 1st |
| D 1830 C | 3.587 | Oregon State Net (T) - 1st |
| D 1845 C | 3.590 | Washington State Net - alt 7.238 |
| D 1900 P | 3.980 | Oregon Emergency Net - 2nd |
| D 1900 C | 3.702 | West Coast Net (training 10 wpm) |
| Su 1900 P | 145.27 | Clackamas ARES |
| D 1900 C | 3.560 | Region Net 7 (20 wpm) |
| Wd 1900 C | 28.180 | Hoodview Code Net |
| D 1930 P | 146.78 | Linn-Benton-Lincoln ARES |
| D 2000 C | 3.690 | Code Practice - W6QIE |
| D 2000 P | 147.32 | Portland ARES |
| D 2030 C | 3.675 | Pacific Area Net - alt 7.083 |
| D 2145 C | 3.590 | Washington State Net - 2nd |
| D 2200 C | 3.587 | Oregon State Net - 2nd |

C-CW, P-Phone, R-RTTY, D-Daily. Times are LOCAL; alternate frequencies in summer. First and second sessions of traffic nets noted.

CARC

SB-220 MODIFICATIONS

After burning up two main-tuning capacitors (C55-250 pF) on my Heathkit SB-220 linear amplifier from arcing (and the third one also going rapidly), I sought a solution to the problem. The answer was found in William I. Orr's 19th edition of the *Radio Handbook* starting with page 22.30, which refers to the 3-500Z 2-kW PEP linear amplifier for 10 through 80 meters. The designs of that amplifier and the SB-220 are similar. The parasitic chokes from the plates of the 3-500Z tubes are three 100-ohm, 2-watt resistors in parallel. Space-wound about one resistor are 3-1/2 turns of no. 18 wire. I happened to have some no. 14 enameled antenna wire and used four turns on one resistor with the other two resistors in parallel. One set is used for each plate, replacing PC-1 and PC-2. I have not observed arcing in the main-tuning capacitor since. Some of the plates of the third capacitor had been previously damaged by arcing. I filed these plates and sand them with smooth sandpaper.

I called the Heath factory for help in solving another problem with the SB-220; it delivered only 250 watts output on 10 meters. The SWR between the driver and the amplifier was 6:1. I was advised to add 5 pF of capacitance across the 10-meter coil (L1) in parallel with C33-C34 and then to tune the coil slug for minimum SWR between the driver and the linear with the

latter feeding a 50-ohm dummy load. Having a 10-pF silver-mica capacitor on hand, I placed it across the coil and then backed the tuning slug 1/4 inch from the original setting to obtain a 1.8:1 SWR at the driver with 900 watts output from 28 to 29 MHz. The Heath engineer said that the SWR normally goes higher toward the high end of the 10-meter band past 29 MHz. A strong word of caution for anyone making the slug adjustment. First disconnect the power, then ground the power supply with an insulated screwdriver after a two-minute wait. Take your time and work safely! It may take several adjustments to find the minimum SWR, but be sure to shut the power off again before each adjustment.

My SB-220 is driven by an FT-101EE. A service representative at Yaesu suggested I use a 5000-ohm potentiometer across the SB-220 alc to avoid faulty alc operation, particularly on 15 meters. There have been times where the alc did not work and the signal could be completely clipped off on ssb. The movable contact is connected to the alc controlled output from the FT-101EE. — Kenneth M. Wold, P.E., N6IH

[Editor's Note: Pay strict attention to the warning in the SB-220 manual with respect to high voltage. Do take particular note of page 81 where SB-220 owners are warned also that the amplifier must not be turned on while the top cover is removed, as the high-voltage supply is short circuited under this circumstance.]

'BORED' MEETINGS

Going to have a 'Board' meeting in the near future. Pse be aware that any member may attend!! It would be a good idea, however, to let the Prez know so we don't get too crowded and not have a chair for you to sit in. YES-Board meetings ARE open to any who wish to attend and it might be a good idea if some of you took the time to do so. Find out what goes on behind the scenes of our club and come away with some appreciation of the time that is spent making the club better. We hope-at least.....

HAM CLASSES



We have the SPRING session of classes starting up and unfortunately the only one offered will be for the Novice ticket. Following, are the details:

PLACE: Cedar Park Intermediate School-Room A10
TIME: 7:00pm to 9:00pm
DATE: March 31-Monday
INFO: Randy, KA7HJT or Rock Creek PCC campus

Get your wife, kids, friends, relatives, enemies, or a CB'r a ham ticket!!

SATELLITE BROADCASTING NEWS ROUNDUP

¶ More High-Tech Football! The USFL, having trouble landing network TV coverage, has bought a berth on a satellite scheduled to be launched this November! They will put together their own network for the 1986 football season when they will go head-to-head against the NFL for the first time! RCA, which is launching the satellite, has offered free satellite dishes to broadcasters and 550 stations have accepted! The USFL will be able to televise up to 3 football games simultaneously to different sections of the country. Nine teams will make up the USFL for 1986 and all games are scheduled to be televised.

¶ Scrambling is still the big news in the backyard earth station business! Super station WOR is set to scramble full time effective March 1st - although test scrambling could begin by the time you read this. They will use the M/A-Com VideCipher II system (also adopted by HBO) which seems to be emerging as the standard. HBO scrambles their signals on January 15th (if you believe the publicity.) Showtime, Turner, CNN and many others are also set to encode their programming. The Justice Department is investigating whether cable operators violated anti-trust laws by convincing programmers to scramble.

¶ Meanwhile, representatives of the home satellite hardware industry, worried about how scrambling might affect them, are pushing bills in Congress to impose a two year moratorium on scrambling or guarantee home dish users scrambled programming at fair prices. Goldwater (K7UGA) is actively involved in making certain that costs are reasonable and that (\$400) descrambler boxes are available to the public before scrambling takes place. Goldwater is also on record as saying that he feels "scrambling legislation is premature at this time" since adequate competition does not yet exist in programming.

¶ It appears that SPACE (the home dish industry lobby group) has not been successful in getting Congress to go along with

their wishes to delay satellite scrambling. Cable operators are developing systems which will enable them to charge private dish owners for programming. Programmers will scramble their signals before beaming to the satellite. Cable operators will unscramble them at their receiving station. Decoder box owners will have their dishes turned on by electronic authorization downlinked with the signal.

¶ At this point, it appears that the satellite broadcast industry was dead wrong in assuming that the public wanted inexpensive hardware and good PPV (pay-per-view) satellite delivered programming. It now appears that the public will pay for expensive hardware if the programming is free! In any event, the high powered DBS (direct broadcast satellite) concept to 2 foot dishes seems to be one that won't fly (to be puny.) Cable operators are having trouble understanding why viewers are passing up \$10.00 monthly charges and shelling out \$2,000 (and up) for hardware. But it is a fact of life. In all of 1980, 4000 home dish sets ups were sold. Last year, 12,000 backyard earth stations were sold a week!

¶ But things aren't all bad for cable. Cable penetration has climbed to 46.2% of U.S. television households according to the A.C. Nelsen Company. Nearly 40 million homes have it. Cable operators are now racing to get into the hardware business now that the technology exists for them to sell (and lease) to the home dish market ...another headache for SPACE which is made up primarily of independent satellite hardware dealers!

¶ Make no mistake about it, the day is coming when movies will be released first to cable Pay-Per-View instead of to theatres! Right now, the movie industry is trying to tap into the growing videocassette tape rental market, but they know their future lies in PPV. The cable industry is quietly outfitting homes with addressable boxes. Plan of paying extra to view portions of the 1988 Olympics!

W5YI

MEETING PROGRAM



Mr. Phil Teck of the National Weather Service Forecasting Office will be giving us a program regarding amateur radios role in forecasting. Both in long range and short range assistance. He will also give us the lowdown on how forecasting is done. This is a first of its kind for us and prove to be quite interesting. Bring your questions with you and leave the umbrella home. He promises sunny weather for our meeting date!

WIN A NEAT PRIZE!!



The SECURITY GROUP for the convention is asking for some immediate response to signups for time slots. If you know you are going to be at the convention, please sign up at the meeting and save the security guys a lot of grey hairs!! It takes a lot of people to do the good job we have done in the past... An incentive for those of you who sign up will be one ticket for each time slot worked which will go for a free chance on a nice new Kenwood TH 21 AT. There will be a choice of the HT or an item of equal value. (TBA) Let's get going and SIGN UP.....

SILENT KEYS

Eldon May, WB7BCW, a charter member of the club (#07), passed away on February 16, 1986. Eldon had become well known on 2m as being from 'Far away Forest Grove' and was a regular check-in on the ARES net. We shall miss Eldon very much. He had been undergoing some serious medical problems for the past 4 or 5 years and as such, his outside activities were curtailed somewhat. Eldon, we shall meet again, in time..

Jack Smothers, KD7XI, passed away January 28, 1986. Jack had been a member a short time. A native of Springfield, Ill., he was retired. His wife Marge, WA6ZPX, is also a member so we hope to see her from time to time. Our sympathies in Jack's memory.

WHO TO CALL FOR WHAT

| | | | |
|---------------------|-----------------|--------|----------|
| *PUBLIC SERVICE | Randy Stimson | KZ7T | 297-1175 |
| | Bud Butterfield | KC7PS | 649-1523 |
| *CLUB CONTESTS | Jeff Freedman | K7JF | 297-7965 |
| *PROJECT NITE | Terry Biggs | WB7CHK | 648-3687 |
| *TECHNICAL | Dee Lynch | KA7NPN | 646-4580 |
| *CLUB RAFFLE | Jim Ziegler | KA7TAC | 246-2539 |
| *MEETING PROGRAMS | Willis Ranes | N7DZR | 292-1656 |
| *CLUB SOCIALS | Paul Lucas | WB6SHR | 641-8713 |
| *EMERGENCY SERVICE | Willis Ranes | N7DZR | 292-1656 |
| *TRAINING (classes) | Randy Cobb | KA7HJT | 649-5066 |
| *WELCOMING | Doug Bull | N7CDI | 649-4540 |
| *PUBLIC RELATIONS | Randy Stimson | KZ7T | 297-1175 |
| CLUB JACKETS | Kathryn Andrews | KA7UMB | 629-5676 |
| CLUB BADGES | Jeff Freedman | K7JF | 297-7965 |
| ROSTER CHANGES | " " | " " | " " |
| ARRG INFORMATION | Warren Winner | W7JDT | 644-0752 |
| CLUB SCRAPBOOK | Doc Miller | KA7BSD | " " |
| ARRL MEMBERSHIP | Randy Stimson | KZ7T | 297-1175 |
| ARRL LEGAL COUNSEL | Stan Weinstein | KX7Y | 635-6883 |
| CONVENTION (Oregon) | Al Berg | WB7SIC | 640-5456 |
| NEWSLETTER | " " | " " | " " |
| RL LIAISON | " " | " " | " " |

* (indicates committee)

CLUB ARRL APPOINTEES

| | | |
|---------------------------------------|--------|----------|
| ARES District Emergency Co-ordinator | KZ7T | 297-1175 |
| ARES Washington County Co-ordinator | WB7BBG | 244-7420 |
| ARRL 1988 National Convention Chm. | WB7SIC | 640-5456 |
| ARRL Assistant Technical Co-ordinator | K7WVG | 649-3295 |
| ARRL Affiliated Club Co-ordinator | KB7CC | 297-2732 |



"Does it ever bother you that everything in our refrigerator is dead?"

CU AT THE MEETING!!

OTVARC
P. O. BOX 5132
BEAVERTON, OR 97006



FIRST CLASS MAIL

Store Hours:

MON 6pm-9pm
FRI 6pm-9pm
SAT 12pm-5pm


OF OREGON, INC.

18955 SW Blanton
Aloha, OR 97007
(503) 642-7373

HUSTLER

YAESU
The radio.

AEA

 Unarco-Rohin
25G & 45G in stock
CALL FOR DISCOUNT PRICES

TELEX **hy-gain**

We can open
most anytime.
Call first.

STAN, W7NI

PAT, KA7UFG